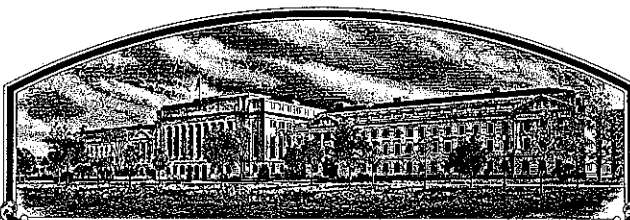


No.

9000073



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Busch Agricultural Resources, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'B1215'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 30th day of April in the year of our Lord one thousand nine hundred and ninety-three.

Attest:

*Kenneth Hewers*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Mike Egan*  
Secretary of Agriculture

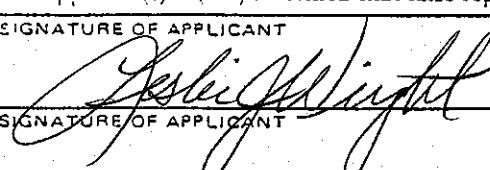
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

FORM APPROVED: OMB NO. 0581-0055

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions on reverse)

1. NAME OF APPLICANT(S) Busch Agricultural Resources, Inc.		2. TEMPORARY DESIGNATION 2B82-8529 or TR930	3. VARIETY NAME B1215
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) 3515 East County Rd. 52 P.O. Box 8306 Fort Collins CO 80524		5. PHONE (Include area code) (303)221-5622 FAX: (303)482-5965	FOR OFFICIAL USE ONLY PVPO NUMBER 9000073
6. GENUS AND SPECIES NAME Hordeum vulgare L.	7. FAMILY NAME (Botanical) Gramineae		FILING DATE January 26, 1990 TIME 10:00 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.
8. KIND NAME Spring Barley	9. DATE OF DETERMINATION 1) 1982 February 2) 1988 1982 per letter 26 Mar 1993		AMOUNT FOR FILING \$ 2,150.00 DATE January 26, 1990
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation		FEE RECEIVED AMOUNT FOR CERTIFICATE \$ 250.00 DATE March 26, 1993	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		12. DATE OF INCORPORATION 1-1-81	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS Dr. Leslie Wright Busch Agricultural Resources, Inc. 3515 E. CO. Rd. 52 Ft. Collins, CO 80524 PHONE (Include area code): (303)221-5622 FAX: (303)482-5965			
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED			
a. <input checked="" type="checkbox"/> Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)			
b. <input checked="" type="checkbox"/> Exhibit B, Novelty Statement.			
c. <input checked="" type="checkbox"/> Exhibit C, Objective Description of Variety (Request form from Plant Variety Protection Office.)			
d. <input checked="" type="checkbox"/> Exhibit D, Additional Description of Variety.			
e. <input checked="" type="checkbox"/> Exhibit E, Statement of the Basis of Applicant's Ownership. Exhibit F.; Quality & Agronomic Data			
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> Yes (If "Yes," answer items 16 and 17 below) <input type="checkbox"/> No			
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> Foundation <input checked="" type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified	
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S. <input type="checkbox"/> Yes (If "Yes," give date) <input checked="" type="checkbox"/> No			
19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES? <input type="checkbox"/> Yes (If "Yes," give names of countries and dates) <input checked="" type="checkbox"/> No			
20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT 		DATE Jan 24, 1990	
SIGNATURE OF APPLICANT		DATE	

## EXHIBIT A

9000073

### Origin and Breeding History of B1215

Experimental Line number: 2B82-8529/TR930/BA8529

Pedigree: KLAGES/RPB72-456

Date of Cross: The parents were crossed in the Fall 1979 greenhouse.

History: F1 seed bulked and grown in Spring 1980 greenhouse. F2 seed grown at Irricana, Alberta. A single seed from an F2 selection was advanced in the F3 by single seed descent in the Fall 1980 greenhouse. An F4 head row derived from the F3 plant was selected in Irricana, Alberta, 1981. Malting quality tests on remnant F4 head row seed assisted in the selection of an F5 seed increase plot that was grown at Christchurch, New Zealand in 1981. The New Zealand increase plot was harvested, bulk threshed, and entered in first year yield trials grown at Irricana, Alberta, Spring 1982, as an F2 derived F6 bulk, under the experimental line number 2B82-8529.

This line was advanced to second year yield trials in 1983 and grown at four Canadian locations. 1984 - 1986 it was tested in Canadian regional trials under the name TR930. In 1985 the experimental line was entered in the U.S. Intermountain second year yield trials and grown from 1986 -1989. It was given the name B1215 in 1989. B1215 was also tested as BA8529 in the 1988 and 1989 Western Spring Barley Nursery in the Intermountain and Western barley growing states of Colorado, Idaho, Wyoming, Montana, Oregon, and Washington.

Purification of B1215 was initiated in 1985 with 96 head rows being grown at Berthoud, Colorado and 88 head rows selected to be bulked for breeder seed. Additional selection was done in 1985 with 96 head rows grown in 1986 of which 83 was selected and bulked for breeder seed.

B1215 is uniform and stable. Less than .5% of the plants were rogued from the breeder seed fields in 1988 in which .2 acres were grown in Arizona and 500 pounds of Foundation seed was produced. Approximately 98% of these rogued variant plants were 2 to 6 centimeters taller than B1215. Less than .5% of any type variant plants may be encountered in subsequent generations.

B1215 has been tested as BA8529 in the Western Spring Barley Nursery in 1988, 1989, which include the Western barley growing states of Colorado, Idaho, Wyoming, Montana, Oregon, and Washington.

EXHIBIT B.

9000073

NOVELTY STATEMENT

B1215 is most similar to the spring barley variety Klages, however it can be distinguished by the following morphological characteristics:

- B1215's glume hairs are confined to a band. Klages glume hairs completely cover the glume.
- B1215's seed hull is semiwrinkled. Klages seed hull is slightly wrinkled.
- B1215 has few teeth on the lemma. Klages has no teeth present on it's lemma.

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
BELTSVILLE, MARYLAND 20705

EXHIBIT C  
(Barley)

OBJECTIVE DESCRIPTION OF VARIETY  
BARLEY (HORDEUM VULGARE)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) <b>BUSCH AGRICULTURAL RESOURCES, INC.</b>	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <b>3515 EAST COUNTY ROAD #52 FORT COLLINS COLORADO 80524</b>	PYPO NUMBER <b>9000073</b>
	VARIETY NAME OR TEMPORARY DESIGNATION <b>B1215</b>

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (i.e.  or ) when number is either 99 or less or 9 or less.

1. GROWTH HABIT:

1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER  Early Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE  
3 = ERECT

2. MATURITY (50% Flowering):

1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes) 3 = LATE (Frontier)

No. of days Earlier than .....  } 1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON  
 No. of days Later than .....  } 5 = PIROLINE 6 = PRIMUS 7 = UNITAN 8 = Klages

3. PLANT HEIGHT (From soil level to top of head):

1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = MEDIUM TALL (Betzes) 4 = TALL (Conquest)

Cm. Shorter than .....  } 1 = BETZES 2 = CALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON  
 Cm. Taller than .....  } 5 = PIROLINE 6 = PRIMUS 7 = UNITAN 8 = Klages

4. STEM:

Exertion (Flag to spike at maturity): 1 = 0 - 3 cm. 2 = 3 - 10 cm.  Anthocyanin: 1 = ABSENT 2 = PRESENT  
3 = 10 - 15 cm.

NO. OF NODES (Originating from node above ground)

Collar Shape: 1 = CLOSED 2 = V-SHAPED 3 = OPEN  Shape of Neck: 1 = STRAIGHT 2 = SNAKY  
4 = MODIFIED CLOSED OR OPEN 3 = OTHER (Specify) .

5. LEAF:

Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT  Position of flag leaf (at boot stage): 1 = DROOPING  
2 = UPRIGHT to 90 degree angle from stem.

Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY  MM. WIDTH (First leaf below flag leaf)  
3 = WAXY

CM. LENGTH (First leaf below flag leaf)  Anthocyanin in leaf sheath: 1 = ABSENT 2 = PRESENT

6. HEAD:

Type: 1 = TWO-ROWED 2 = SIX-ROWED  Density: 1 = LAX 2 = ERECT (Not dense)  
3 = ERECT (Dense) 4 = middense

Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY  
4 = OTHER (Specify) 3 = WAXY

Lateral Kernels Overlap: 1 = NONE 2 = AT TIP  Rachis (Hair on edge): 1 = LACKING 2 = FEW 3 = COVERED  
3 = 1/4 - 1/2 OF HEAD

7. GLUME:

Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA  Hairs: 1 = NONE 2 = SHORT 3 = LONG  
3 = MORE THAN 1/2 OF LEMMA

Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE 3 = CONFINED TO BAND 4 = COMPLETELY COVERED

Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 2 = EQUAL TO LENGTH OF GLUMES  
3 = MORE THAN EQUAL TO LENGTH OF GLUMES

Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH

## 8. LEMMA:

- ☐ 5 Awn: 1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS, AWNLESS ON LATERAL ROWS  
 3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS 4 = SHORT (less than equal to length of spike)  
 5 = LONG (longer than spike) 6 = HOODED
- ☐ 3 Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH
- ☐ 2 Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS ☐ 1 Hair: 1 = ABSENT 2 = PRESENT
- ☐ 1 Shape of base: 1 = DEPRESSION 2 = SLIGHT CREASE ☐ 2 Rachilla Hairs: 1 = SHORT 2 = LONG  
 3 = TRANSVERSE CREASE

## 9. STIGMA:

- ☐ 2 Hairs: 1 = FEW 2 = MANY

## 10. SEED:

- ☐ 2 Type: 1 = NAKED 2 = COVERED ☐ 1 Hairs on Ventral Furrow: 1 = ABSENT 2 = PRESENT
- ☐ 3 Length: 1 = SHORT (8.0 mm.) 2 = SHORT TO MIDLONG (7.5 - 9.0 mm.) 3 = MIDLONG (8.5 - 9.5 mm.)  
 4 = MIDLONG TO LONG (9.0 - 10.5 mm.) 5 = LONG (10.0 mm.)
- ☐ 3 Wrinkling of hull: 1 = NAKED 2 = SLIGHTLY WRINKLED 3 = SEMIWRINKLED 4 = WRINKLED
- ☐ 1 Aleurone Color: 1 = COLORLESS (White or Yellow) 2 = BLUE
- ☐ 0 ☐ 0 PERCENT ABORTIVE ☐ 4 ☐ 2 GMS. PER 1000 SEEDS

## 11. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3 = Moderately Susceptible 4 = Moderately Resistant

- |                                       |   |   |   |
|---------------------------------------|---|---|---|
| <input type="checkbox"/> 1 SEPTORIA   | <input type="checkbox"/> 1 NET BLOTCH       | <input type="checkbox"/> 4 SPOT BLOTCH  | <input type="checkbox"/> 0 POWDERY MILDEW   |
| <input type="checkbox"/> 3 LOOSE SMUT | <input type="checkbox"/> 0 BACTERIAL BLIGHT | <input type="checkbox"/> 0 COVERED SMUT | <input type="checkbox"/> 0 FALSE LOOSE SMUT |
| <input type="checkbox"/> 0 STEM RUST  | <input type="checkbox"/> 0 LEAF RUST        | <input type="checkbox"/> 0 SCAB         | <input type="checkbox"/> 0 SCALD            |
| <input type="checkbox"/> 0 AY         | <input type="checkbox"/> 0 BSMV             | <input type="checkbox"/> 0 BYDV         | <input type="checkbox"/> 0 OTHER (Specify)  |

## 12. INSECT: (0 = Not tested, 1 = Susceptible, 2 = Resistant)

- |  |  |  |                                     |
|--|--|--|-------------------------------------|
| <input type="checkbox"/> 0 GREEN BUG     | <input type="checkbox"/> 0 ENGLISH GRAIN APHID | <input type="checkbox"/> 0 CHINCH BUG      | <input type="checkbox"/> 0 ARMYWORM |
| <input type="checkbox"/> 0 GRASS HOPPERS | <input type="checkbox"/> 0 CERIAL LEAF BETTLE  | <input type="checkbox"/> 0 OTHER (Specify) |                                     |
| HESSIAN FLY RACES                        |  |  |                                     |
| <input type="checkbox"/> 0 GP            | <input type="checkbox"/> 0 A                   | <input type="checkbox"/> 0 B               | <input type="checkbox"/> 0 C        |
| <input type="checkbox"/> 0 D             | <input type="checkbox"/> 0 E                   | <input type="checkbox"/> 0 F               | <input type="checkbox"/> 0 G        |

## 13. CHEMICAL (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

- ☐ 0 DDT ☐ 0 OTHER (Specify)

## 14. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Klages	Seed size	Klages
Leaf size	Klages	Coleoptile elongation	Klages
Leaf color	Klages	Seedling pigmentation	Klages
Leaf carriage	Klages		

REFERENCES: The following publications may be used as a reference aid for the standardization of character descriptions and terms used in this form:

1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Canada in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61 - 84.
3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

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EXHIBIT D.

ADDITIONAL BOTANICAL DESCRIPTION OF B1215

B1215 is a two-rowed spring barley bred and developed by Busch Agricultural Resources, Inc. It is midseason in maturity and has good malting quality.

B1215 has a semiprostrate juvenile growth habit. Plant color at boot is green with a semi-nodding spike attitude. Glume hair covering is confined to a band and glume awn is equal to glume length. Glume awn surface is rough. Lemma awn is long and rough. Rachilla hairs are long and rachis edge is covered. The seed hull is adhering and semiwrinkled and aleurone is colorless. Lemma shape of base is a depression.

B1215 is adapted to the Intermountain West which includes the states of Idaho, Montana and Colorado.

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**EXHIBIT E.**

**STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP**

Busch Agricultural Resources, Inc. is the applicant for protection in this case being:

- a. The incorporated business registered in Delaware for and within which regular employees have bred B1215.
- b. The proprietary owner and intending commercial seller of B1215.



**EXHIBIT F**

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**QUALITY AND AGRONOMIC DATA**

QUALITY SUMMARY DATA.....	PAGE 1
BARI AGRONOMIC DATA.....	PAGE 2
WESTERN SPRING BARLEY NURSERY.....	PAGE 3
MONTANA STATE UNIVERSITY.....	PAGE 4
UNIVERSITY OF WYOMING.....	PAGE 5
WASHINGTON STATE UNIVERSITY.....	PAGE 6
DISEASE DATA.....	PAGE 7

## BARI AGRONOMIC DATA

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VARIETY OR LINE	YIELD (% KLAGES)							(20)	(11)	(12)
	(1)	(1)	(2)	(2)	(12)	(4)	(22)	HEAD	HT	LODGE
	<u>84</u>	<u>85</u>	<u>86</u>	<u>87</u>	<u>88</u>	<u>89</u>	<u>AVE</u>	<u>DATE</u>	<u>CM</u>	<u>INDEX</u>
B1215	130	119	121	136	110	103	113	167	85	2.7
KLAGES	100	100	100	100	100	100	100	168	87	4.5
	(95)	(92)	(71)	(98)	(87)	(100)	(90)			

1984-89: 22 STATION YEARS

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1988 WESTERN SPRING BARLEY NURSERY

<u>VARIETY</u> <u>OR LINE</u>	<u>YIELD</u> <u>BU/AC</u>	<u>TEST WT</u> <u>LB/BU</u>	<u>HEIGHT</u> <u>INCHES</u>	<u>LODGE</u> <u>INDEX</u>	<u>HEAD</u> <u>DATE</u>
B1215	87.9	51.5	28.3	19.3	177.2
KLAGES	80.5	50.6	28.7	41.2	178.3

NOTE: 1989 WESTERN SPRING BARLEY NURSERY DATA UNAVAILABLE  
AT THIS TIME.

NURSERY SITES: LETHBRIDGE, ALBERTA; TULELAKE, CA; BERTHOUD,  
CO; ABERDEEN, BONNERS FERRY, MOSCOW, ID; BOZEMAN,  
MANHATTAN, MT; WILLISTON, DICKINSON, MINOT, ND;  
FARMINGTON, NM; ONTARIO, MADRAS, HERMISTON, OR;  
LOGAN, UT; PULLMAN, WA; POWELL, SHERIDAN, WY.

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## MONTANA STATE UNIVERSITY

1988, 1989 YIELD TRIALS  
IRRIGATED

<u>VARIETY OR LINE</u>	<u>YIELD BU/AC</u>			<u>TEST WT BU/AC</u>	<u>HEAD DATE</u>	<u>HEIGHT INCHES</u>	<u>LODGE INDEX</u>
	<u>1988</u>	<u>1989</u>	<u>AVE</u>				
B1215	84.9	105.7	95.3	51.3	180.1	28.6	3.2
KLAGES	85.5	88.6	87.1	50.9	182.3	29.4	20.2
HARRINGTON	86.5	98.2	92.4	50.6	180.1	29.2	24.5

## 1989 DRYLAND YIELD TRIALS

<u>VARIETY OR LINE</u>	<u>YIELD BU/AC</u>	<u>TEST WT BU/AC</u>	<u>HEAD DATE</u>	<u>HEIGHT INCHES</u>
B1215	85.5	52.5	174.7	26.3
KLAGES	42.5	48.4	187.5	23.7
HARRINGTON	51.2	47.7	185.4	24.0

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## UNIVERSITY OF WYOMING

## 1988, 1989 YIELD TRIALS

<u>VARIETY</u> <u>OR LINE</u>	<u>YIELD BU/AC</u>			<u>TEST WT</u> <u>LB/BU</u>	<u>HEIGHT</u> <u>INCHES</u>	<u>HEAD</u> <u>DATE</u>
	<u>1988</u>	<u>1989</u>	<u>AVE</u>			
B1215	69.7	58.4	62.6	50.3	22.0	177.5
KLAGES	75.0	54.4	62.1	44.0	23.8	177.3

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## WASHINGTON STATE UNIVERSITY

9000073

## 1989 YIELD TRIALS

<u>VARIETY OR LINE</u>	<u>YIELD BU/AC</u>	<u>TEST WT LB/BU</u>	<u>HEIGHT INCHES</u>
B1215	75.5	47.3	29.0
HARRINGTON	80.2	46.5	29.3
CLARK	74.2	44.4	33.0

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## DISEASE DATA

## WESTERN CO-OPERATIVE TWO-ROW BARLEY TEST

ALBERTA, CANADA

1985, 1986

<u>VARIETY</u>	<u>% COMM.</u>		<u>SMUT (% INFECTED)</u>			<u>NET BLOTCH ISOLATES</u>			<u>SCLD</u>	<u>SEP.</u>
	<u>A</u>	<u>B</u>	<u>NUDA</u>	<u>HORD</u>	<u>NIGRA</u>	<u>102</u>	<u>858</u>	<u>857</u>		
B1215	47	75	91	9*	19*	8.5	10	7.0	S	S
HARRINGTON	23	40	96	33	22	9.5	10	8.5	S	S
ELLICE	52	49	84	16	29	4.5	8	7.5	S	S

\* = 1 YEAR DATA ONLY

A = SASKATOON LOCATION

B = SCOTT LOCATION

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